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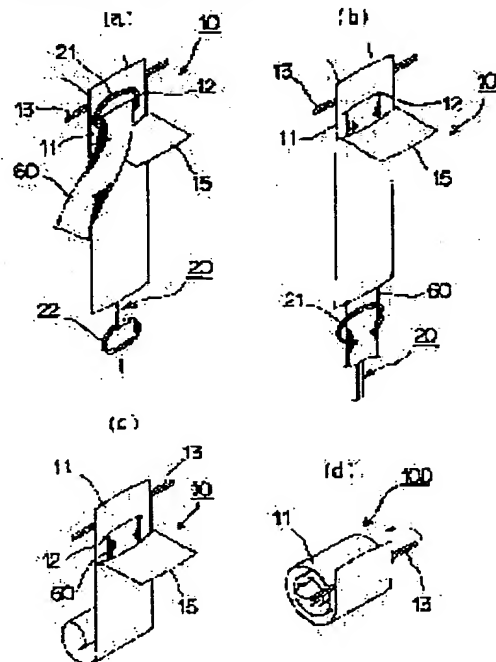
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(54) HAIR WINDING TOOL AND HAIR WINDING METHOD USING THE TOOL

(57)Abstract:

PROBLEM TO BE SOLVED: To easily wind the hair regardless of a technique level by deforming a plastic deformation member in the state of surrounding the hair by a sheet body and forming and holding the curved, bent or wound state of the hair.

SOLUTION: The hair 60 is scooped out to the front from the hole of the ring part 21 of a hair fetching tool 20 which is the plastic deformation member so as to abut the side of the sheet body 11 provided with a notch part 12 to a hair surface, the hair fetching tool 20 is slid downwards and pulled out from a part between the sheet bodies 11 and 15 and the hair 60 is fetched between the sheet bodies 11 and 15 so as to be smoothed to the ring inner surface of the ring part 21. In the state, when it is rolled and curved to an inner side from the tip direction of the hair 60 and a wound body 10D is attained, a wire 13 is inserted to the hollow part of the wound body 10D, the wound state of the wound body 10D is pressed and fixed and a permanent treatment liquid is applied to the hair, then a permanent treatment is performed.



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CLAIMS

[Claim(s)]

[Claim 1] The hair winding implement which holds the bow of hair, crookedness, or a winding condition by making said plastic deformation member deform into the condition which came to attach in a sheet object or a tube-like object the plastic deformation member [crook / and / it / freely] which can hold the crookedness configuration, and surrounded hair with said sheet object, or said tube-like object inside where hair is incorporated.

[Claim 2] A part or said all plastic deformation members are the hair winding implement according to claim 1 with which it is characterized by two or more single **** being arranged by said sheet object or tube-like object so that the die-length direction of said plastic deformation member may be located in the die-length direction of hair, and abbreviation parallel in the condition which incorporated hair to the condition or the tube-like object inside which surrounded hair with the sheet object.

[Claim 3] A part or said all plastic deformation members are the hair winding implement according to claim 1 with which it is characterized by two or more single **** being arranged by said sheet object or tube-like object so that the die-length direction of said plastic deformation member may be located in the die-length direction and abbreviation perpendicular of hair in the condition which incorporated hair to the condition or the tube-like object inside which surrounded hair with the sheet object.

[Claim 4] In the condition which incorporated hair to the condition or the tube-like object inside which surrounded hair with the sheet object The hair winding implement according to claim 1 characterized by said plastic deformation member being arranged by said sheet object or tube-like object so that the die-length direction of some said plastic deformation members may be located in the die-length direction of hair, and abbreviation parallel and the die-length direction of said plastic deformation member of the other sections may be located in the die-length direction and abbreviation perpendicular of hair.

[Claim 5] A hair winding implement given in one term of claims 1-4 characterized by forming the cut section which makes hair insert in a sheet object or a tube-like object.

[Claim 6] Two or more sheet objects paste up the longitudinal direction both-sides section except the up predetermined part, and turn into an approximately cylindrical object.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the hair winding approach of forming and holding the bow of hair, crookedness, or a winding condition according to deformation of the hair winding implement which comes to attach a plastic deformation member in a detail, and said plastic deformation member, more about the hair winding approach of having used a hair winding implement and this.

[0002]

[Description of the Prior Art] Regardless of age or sex, human being is going to direct his individuality and ambient atmosphere by adopting various hair styles. The bow of hair, crookedness, or a winding condition is held with a hair winding implement with last thing, curl grant is carried out at hair, and the manifestation of the hair style by hair cut also makes a hair style discover in many cases in that case.

[0003] In order to use the member of the shape of a hollow cylinder called a rod as said hair winding implement in many cases and to explain said rod in drawing 14 , a package of a hair winding implement used as an example at the time of the Parma grant was shown. A package 50 of a hair winding implement of the example of drawing consists of a pin 53 for forming a clearance between the rubber band 52 which has bundled the rod 51, and the hair wound around rod 51 front face so that a rubber band 52 may bundle with the rod 51 which twists hair around the front face, the rubber band 52 which meets the longitudinal direction and bundles with it the rod 51 in the condition of having rolled hair, and the hair wound around rod 51 front face and marks may not remain.

[0004] The process which rolls round hair using the above mentioned conventional rod 51 is as being shown in drawing 15 . Hair 60 is pinched as the sheet object 54 grade which consists hair 60 of suitable amount scooping, good paper of absorptivity, etc. with a comb etc. first is folded in one half (drawing 15 (a)). At this time, if hair 60 is wet, it will be easy to treat. Next, this hair 60 is rolled round from a hair-ends 61 side to a rod 51 the whole sheet object 54 (drawing 15 (b)), the rod 51 around which hair 60 was wound next is bundled with that longitudinal direction with a rubber band 52 (drawing 15 (c)), and the pin 53 is put between a rubber band 52 and hair 60 so that the marks of this rubber band 52 may not be attached to hair (drawing 15 (d)).

[0005] Moreover, using the longwise rod 55 near a cone configuration as shown in drawing 16 , as it twists around this rod 55 spirally, hair rolling up is performed to curl the letter of external waviness especially to a lengthwise direction.

[0006] The above-mentioned rods 51 and 55 are used also for example, at the time of the Parma processing, although this Parma processing is entrusted to those (beautician) who generally have expertise in a beauty parlor etc. in many cases, it may not be unable to be easy, and the gap of an image arises between a principal and a beautician and transmitting the hair style which a principal wishes by oral statement may be unable to perform satisfactory hair rolling up to it. Moreover, recently, since costs increase, even if the goods which made the set said package 50 of a hair winding implement, Parma processing liquid, etc. are also sold so that it can carry out at home, and it does not go by recently to a beauty parlor, a principal is himself or it is becoming

possible to perform Parma grant by acquaintances.

[0007] However, when hair rolling up was performed using the conventional rod 51 and 55 grades, the following technical problems occurred. That is, in case hair 60 is rolled round using rods 51 and 55, hair 60 may be rolled round while it has been in the condition in which the hair-ends 61 grade bent, when the to some extent high technical force is required for rolling round hair ends 61 smoothly and an unripe beautician and an unripe amateur carry out. When Parma processing is performed especially in this condition, the bending condition of hair ends 61 will be fixed as it is, and it becomes difficult to improve said condition also with the heat of a dryer. Moreover, the to some extent high technical force is taken to twist around a rod 51 tidily the hair 60 dipped up with the comb etc., and when especially hair ends twist irregular hair, how many of that hair tend to jump out. Moreover, even if it bundles with rubber band 52 grade so that the rod 51 which rolled round hair may not roll, a rod 51 tends to roll and it is further hard to hold the condition of having rolled round depending on the location to bundle.

[0008] Thus, the to some extent high technical force was required to roll round hair 60 using the conventional rods 51 and 55, when an unripe beautician and an unripe amateur carried out, making hair 60 wind around a rod 51 took time amount, or the result was unsatisfactory in many cases, furthermore that a principal rolls round a principal's hair had the technical problem were not easy, even if it was a remarkable expert.

[0009]

[Problem(s) to be Solved by the Invention] It aims at offering the hair rolling-up approach using the hair winding implement and it with the wide application range which can be easily rolled round not related to skill level whether it is an unripe beautician and an amateur or is the case where a principal rolls round a principal's hair. [this invention is made in view of the above-mentioned technical problem, and is easy handling, and] [***** and workability are good in a special technique, and]

[0010]

[Means for Solving the Problem] The hair winding implement which starts this invention in order to attain the above-mentioned object is characterized by to form and hold the bow of hair, crookedness, or a winding condition by making said plastic-deformation member deform into the condition which came to attach in a sheet object or a tube-like object the plastic-deformation member which can hold [that it can be crooked freely and] the crookedness configuration, and surrounded hair with said sheet object, or said tube-like object inside, where hair is incorporated.

[0011] Said all plastic deformation all [a part or] so that the die-length direction of said plastic deformation member may be located in the die-length direction of hair, and abbreviation parallel in the condition which incorporated hair to the condition or the tube-like object inside which surrounded hair with the sheet object As for single ****, it is desirable to said sheet object or tube-like object that two or more are arranged. Moreover, said all plastic deformation all [a part or] As for single ****, it is desirable to said sheet object or tube-like object that two or more are arranged so that the die-length direction of said plastic deformation member may be located in the die-length direction and abbreviation perpendicular of hair in the condition which incorporated hair to the condition or the tube-like object inside which surrounded hair with the sheet object. Moreover, as for single ****, it is more desirable to said sheet object or tube-like object that two or more are arranged so that the die-length direction of some said plastic deformation members may be located in the die-length direction of hair, and abbreviation parallel and the die-length direction of said plastic deformation member of the other sections may be located in the die-length direction and abbreviation perpendicular of hair.

[0012] It is desirable that the cut section which makes hair insert in a sheet object or a tube-like object is formed. Moreover, as an example of these hair winding implement Two or more sheet objects paste up the longitudinal direction both-sides section except the up predetermined part, and turn into an approximately cylindrical object. While the cut section prolonged in the direction of a short hand is formed in said upper part of one sheet object and the 1st plastic deformation member is attached along with a longitudinal direction from the abbreviation center section of this cut section the 2nd plastic deformation member which has the die length

attaches in the direction of a short hand at the upper part or the lower part of said sheet object of one side or another side -- having -- this -- the hair winding implement with which the 2nd plastic deformation member is installed exceeding the longitudinal direction both-sides section of said sheet object and which is a thing is raised.

[0013] Its workability is good when these hair winding implement is used with the following hair taking-in implements. Said hair taking-in implement is for arranging hair inside the location surrounded by the sheet object or a tube-like object, and it really comes to form in the edge of a rod-like structure the ring part or hook which can surround hair. It is performed as follows, in order it is desirable that the whole inside surface or a part of said ring part or hook is a ***** pectinate form about hair and to roll round hair with such a hair taking-in implement and a hair winding implement which was described above.

[0014] That is, hair is surrounded on the sheet object of said hair winding implement, or hair is incorporated to the tube-like object inside, and the bow of hair, crookedness, or a winding condition is formed and held by making a plastic deformation member deform. By carrying out alignment of said hair taking-in implement to the sheet object top of said hair winding implement, or the tube-like object inside, making hair insert in the ring part or hook of said hair taking-in implement at this time, and moving said hair taking-in implement from a sheet object top or the tube-like object inside It is desirable to consider as the condition which surrounded hair with the sheet object, or the condition of having incorporated hair to the tube-like object inside, and to do the deformation activity of the account plastic deformation member of back to front.

Moreover, it is more desirable when said hair winding implement has the aforementioned cut section, and said activity is done by carrying out alignment of this slitting section, the ring part of a hair taking-in implement, or the hook, making hair insert in these cut section and a ring part, or a hook, and moving said hair taking-in implement to the method of outside from a sheet object top or the tube-like object inside.

[0015]

[Embodiment of the Invention] Hereafter, the hair winding implement concerning the gestalt of operation of this invention is explained based on a drawing. Drawing 1 is the typical perspective view having shown the hair winding implement concerning the gestalt of operation. in addition -- drawing 2 -- (-- a --) -- the -- typical -- a front view -- drawing 2 -- (-- b --) -- the -- typical -- a side elevation -- drawing 3 -- (-- a --) -- drawing 2 -- (-- a --) -- it can set -- AA -- ' -- a sectional view -- drawing 3 -- (-- b --) -- drawing 2 -- (-- a --) -- it can set -- BB -- ' -- a sectional view -- it is . As shown in these drawing 1 -3, two sheet objects of a plane view rectangle configuration lap, it comes to form a tube-like object, and the hair winding implement concerning the gestalt of operation is installed from a side piece besides cylinder part 10A, and guide section 10B in which it is installed from the 1 side piece of cylinder part 10A and cylinder part 10A, and has come to contain piece of ** 10C in which guide section 10B and a pile are possible. The cut section 12 which has that die length along the direction of a short hand of the sheet object 11 is formed in the drawing Nakagami section of one of the two's sheet object 11, i.e., guide section 10B, it has die length along the direction of a short hand of the sheet object 11 the same above this cut section 12, and the wire 13 as an example of a plastic deformation member with the die length exceeding the width method of the sheet object 11 is attached. The wire said here means a metal piece and the wire which carried out sheathing of the synthetic resin, and installation of a wire 13 may be attached in one with the sheet object 11 by embedded shaping, as shown in drawing 3 (d), and it may be attached in the sheet object 11 by adhesion or welding as example of another. Moreover, the wire 14 as an example of a plastic deformation member which has the die length along with the longitudinal direction of the sheet object 11 is attached in the abbreviation center section which is cut section 12 lower part of the sheet object 11, and met the longitudinal direction of the sheet object 11. It can say that it is the same as that of the case of a wire 13 also about the concept of this wire 14, and installation. Thus, another [with magnitude comparable as this] sheet object 15 puts on the sheet object 11 with which wires 13 and 14 were attached, and the longitudinal direction both-sides section except drawing Nakagami section, i.e., the guide section, 10B and piece of ** 10C pastes up, it is set to cylinder part 10A, and the hair winding implement 10 is constituted. As for installation of

wires 13 and 14, it is needless to say that it is not what is limited only to sheet object 11 of one of the two at all.

[0016] Like the wires 13 and 14 generally illustrated with the gestalt of this operation, although said plastic deformation member means the member which crookedness can be free and can hold the crookedness configuration, it shall contain in said plastic deformation member what deforms not according to an operation of the force but according to an operation of heat etc. like a shape memory alloy or a shape-memory resin in addition to this in this invention. In any case, it is desirable that coating is carried out with synthetic resin, such as a vinyl chloride, so that it may not rust with Parma liquid etc. or a chemical change may not be caused. A raw material with absorptivity, water retention, chemical resistance, and thermal resistance good as a raw material of the sheet objects 11 and 15 is desirable, for example, Japanese paper, a nonwoven fabric, etc. are mentioned. Moreover, itself may be a sheet object whose crookedness was attained by crookedness being free and inserting in a fiber piece with configuration holdout, for example. Although what covered the wire etc. with the vinyl chloride etc. as wires 13 and 14 is illustrated, it is hard to rust, and if it can be crooked freely and has configuration holdout, it will not be limited at all. Moreover, the band-like object with which the surface fastener of each other which can stop was attached in ends by making winding condition maintenance into a key objective may be attached instead of a wire 13, and it becomes possible to hold a bow or crookedness condition of a hair winding implement simple by stop of said surface fastener in this case. Furthermore, a clip etc. may be used by making said winding condition maintenance into a key objective, and a part or the whole of a winding object may be pinched with this clip etc. Furthermore, if the installation location of wires 13 and 14 is not limited to the location illustrated by the gestalt of the above-mentioned implementation and is in a wire 13, you may be attached in the drawing Nakashita section of the sheet object 11, and if it is in a wire 14, plurality may be attached in the side part of the sheet object 11.

[0017] The hair winding implement concerning this invention may be the hair winding implement 17 which consists only of cylinder part 10A which there is no cut section 12 (drawing 1), and both guide section 10B and piece of ** 10C (all are drawing 1) have, and which the longitudinal direction both-sides section to a drawing Nakagami edge pasted up, as it is not limited to the above-mentioned configuration at all and shown in drawing 4 . In this case, two or more wires 14 may be attached in a part for the side part of the sheet object 11, and an abbreviation center section like the example of drawing, and, as for the wire 14, the wire 14 of plurality [**** / single] may be attached only in a part for an abbreviation center section, and the side part. As furthermore shown in drawing 5 , a tube-like object may not be presented and a wire 14 may be the hair winding implement 18 attached in the center section at the sheet object 111. In this case, of course, the wire 14 may be attached not only in an abbreviation center section but in the method part of both sides. In these hair winding implement 18, the sheet object 111 covers hair in the condition of having made the wire 14 meeting the flow of hair, and how to roll round hair, as twists the whole can be considered. Moreover, you may be the hair winding implement 19 with which the cut section 121 extended in the direction of a short hand is formed in the abbreviation center section of the sheet object 112 as shown in drawing 6 , and it comes to attach the plastic deformation member 14 from the cut section 121 toward the sheet edge of either or both sides. In this case, hair is made to insert in this side from the cut section 121, hair is held by folding the sheet object 112 in half from the cut section 121 neighborhood, and the above-mentioned approach and the approach of rolling round hair similarly can be considered. In this case, the installation number of a wire 14 and an installation part are not limited at all.

[0018] Although it is as follows when the dimension of the hair winding implement 10 shown in drawing 1 here is illustrated, of course, it is not limited to the following dimensions at all. For example, as for the dimension of the sheet objects 11 and 15, the wire 13 is caudad attached about 1cm from the upper bed about (Length h) x (width w) = 18cm x 5cm, and this wire 13 is exposed to the method of both sides every about 2cm from the long side of the sheet object 11. The cut section 12 whose width method is about 3.5cm below about 1.5cm is formed from the wire 13, and the wire 14 prolonged from [near the abbreviation pars intermedia of the cut section 12] to the soffit of the sheet object 11 is inherent in the sheet object 11. Moreover,

both the side part has pasted up except for the part from each upper bed to 4cm lower part, and the sheet objects 11 and 15 are presenting abbreviation tubed. Moreover, drawing 4 R> 4, the vertical dimension of the hair winding implements 17 and 18 shown in drawing 5 (h1), It is thought that it is common that it is comparable as the vertical dimension (h) of the hair winding implement 10 as for (h2). It is thought that what is longer than the vertical dimension (h) of the hair winding implement 10 is common as for the vertical dimension (h3) of the hair winding implement 19 shown in drawing 6. Although it is thought that it is common that it is comparable as the form width (w) of the hair winding implement 10 as for the form width (w) of the hair winding implements 17 and 19 shown in drawing 4 and drawing 6, and it is thought that what is longer than the form width (w) of the hair winding implement 10 is common as for the form width (w1) of the hair winding implement 18 shown in drawing 5 and being planned It is not limited to these at all.

[0019] Thus, the constituted hair winding implement 10 (17-19) can do an activity more efficiently, if the hair taking-in implement 20 as shown in drawing 7 is used. The hair taking-in implement 20 is equipped between the sheet object 11 of the hair winding implement 10, and 15, and is used, and the amount of both points are ring parts 21 and 22 like for example, the example of drawing, and, as for the configuration, it has come to attach these ring parts 21 and 22 through the cylindrical section 23.

[0020] Although for example, various plastics is mentioned as a raw material of the hair taking-in implement 20 and any of thermoplastics, such as thermosetting resin, such as an epoxy resin, and polyethylene, may be used, it is desirable that it is a chemical-resistant high raw material so that using also at the time of the Parma processing may be possible.

[0021] Although it is as follows when the dimension of the hair taking-in implement 20 is illustrated, of course, it is not limited to the following dimensions at all. The direction die length of a major axis of hole 21a of the ring part 21 which the cylindrical section 23 is about 18cm, and was really formed in the end of this cylindrical section 23 (t1) For example, about 4.5cm, The direction die length of a minor axis (s1) is about 2.0cm, and about 3.25cm and the direction die length of a minor axis (s2) of the direction die length of a major axis of hole 22a of the ring part 22 really formed in the other end of the cylindrical section 23 (t2) are about 1.5cm.

[0022] This hair taking-in implement 20 is infixed between the sheet object 11 of the hair winding implement 10, and 15, as shown in drawing 8, carries out alignment of the hole 21a (22a) of a ring part 21 (22) to the cut section 12, and uses it. Ring parts 21 and 22 are elliptical [long in the die-length direction of the cut section 12], and are the direction die length t1 of a major axis of each hole 21a and 22a, and t2. It has die length which is collectively different in the amount of hair to incorporate. Even if it says this hair taking-in implement 20 from the sheet object 11 and the need of infixing among 15, its thing with the longitudinal direction dimension of ring parts 21 and 22 smaller than the width method of the sheet objects 11 and 15 is desirable.

[0023] As rolled round to the rod like before, using this hair winding implement 10 and the hair taking-in implement 20, in order to regulate a bow or crookedness condition of hair, an activity is done in order of the process of drawing 9 (a) - (d). The hair winding implement 10 which infixed the hair taking-in implement 20 is arranged, and hair 60 is dipped up out of hole 21a of the cut section 12 and the hair taking-in implement 20 to the front so that the sheet object 11 side which has the cut section 12 first may be made to contact a hair front face (drawing 9 (a)). The drag-out of hair 60 has good workability, when the part of the shank of a comb etc. is used. Next, the method of drawing Nakashita is slid on the hair taking-in implement 20, and it is drawn out from between the sheet object 11 of the hair winding implement 10, and 15. As hair 60 is stroked by endocyclic side 21b of the ring part 21 of the hair taking-in implement 20 according to this activity, it is taken in between the sheet object 11 and 15 (drawing 9 (b)). The hair winding implement 10 is shifted to the location which can cover hair ends 61 with this condition, and holding hair 60 between the sheet object 11 and 15, the hair winding implement 10 is involved in inside from hair-ends 61 direction, and it dies (drawing 9 (c)). The direction to involve in may not be limited in the direction of the inside, and may be the direction of an outside. If it involves in to the location of a wire 13 and is referred to as winding object 10D, the winding condition of winding object 10D will be pressed down and stopped by inserting a wire 13

in the centrum 16 of this winding object 10D from that point, and being crooked in the method of the inside of winding object 10D (drawing 9 (d)). At this time, it is as above-mentioned that you may stop on both sides of a part or the whole of winding object 10D instead of a wire 13 with a clip etc.

[0024] If rolling up which gave and described Parma processing liquid above to hair 60 in such an approach the time of the process of above-mentioned drawing 9 (a) or before that is performed, it is applicable also to the Parma processing.

[0025] According to the above-mentioned hair winding implement 10, since the sheet object 11 can be held at the time of the process of above-mentioned drawing 9 R> 9 (b) and hair 60 can be held among 15, the technique of twisting around a rod 51 is not needed, pinching with a finger so that it may not have said that a part of hair jumps out of hair 60 and hair may not jump out of hair 60 like before. Moreover, when applying, for example to the Parma processing, the Parma processing liquid given to hair 60 will once be held between the sheet object 11 and 15, and since it can prevent that said Parma grant liquid drips in a subsequent routing, it can lessen the amount of grants of said Parma grant liquid conventionally. While cost is reducible by this, it can prevent being able to prevent effectively that the Parma grant liquid which dripped adheres to a face or a neck, and being able to fog it.

[0026] Moreover, by the conventional hair rolling-up approach, a rod 51 is hit against the range pinched through the sheet object 54. Although a certain amount of technique is needed for involving in hair ends 61 using the shank head of a comb etc. in many cases, being easy to be involved in in case of this approach after hair ends 61 have broken, and rolling round hair ends 61 smoothly Since it can begin to wind in the condition of having covered with the sheet objects 11 and 15 to hair ends 61 according to the approach using the hair winding implement 10 which gave [above-mentioned] explanation, hair ends cannot break easily. It is necessary to use no comb etc., and after holding hair 60 between the sheet object 11 and 15, since the hair winding implement 10 will touch hair 60 by the field contact with the sheet objects 11 and 15, it is hard to slide it down from hair 60, and it does not need the technique of doing a contamination activity, always pressing down a rod 51 and hair 60 like [in the case of using a rod 51]. That is, even if it released both hands after holding hair 60 between the sheet object 11 and 15, there was no inconvenience in any way, and even if it was an unfamiliar amateur, it did not need to be said that an activity was repeatedly redone from the beginning. Moreover, since it is not necessary to carry out comb through repeatedly by the above-mentioned approach, hair is a pile to a pain.

[0027] Moreover, even if it releases its hold while being a winding activity since the abbreviation center section of the longitudinal direction of the hair winding implement 10 is equipped with the wire 14 which is the plastic deformation member which has configuration holdout, since the winding condition to said middle is held, it does not have need, such as rewinding from the beginning, and can raise workability. Moreover, when a wire 14 is the raw material excellent in elasticity, it is easy to form an arc condition using said elasticity, and workability can be raised more.

[0028] moreover, after winding -- a wire 13 -- winding -- the inside of the body -- it is not necessary to bundle by rubber band 52 grade like [since said winding condition can be held by being crooked in the method of the inside of a hollow part 16 / in the case of being the former], and to carry out a stop, and since it is hard to separate from the crooked wire 13, a winding condition can be held more certainly easily [again]. Moreover, a wire 13 does not contact hair 60 and directly and the stop back cannot remain in hair easily.

[0029] The configuration of hair 60 can also be held in the condition of having twisted as such a hair winding implement 10 was able to be made deforming into various configurations, for example, it was shown in drawing 10 . At this time, it is also possible by twisting a part like drawing 11 to give a specific twist configuration to a part of hair 60. Moreover, it is also possible to give a specific external waviness configuration to hair 60 by considering as the configuration folded up in the shape of an accordion partition as shown in drawing 12 . In addition, various patterns can be considered in the configuration arrangement of the hair winding implement 10, and it becomes possible to make the hair style which is different from people with an individual

device discover.

[0030] Moreover, in the case of the approach using the conventional rods 51 and 55, the rods 51 and 55 of various paths and die length, and a configuration needed to be used for every magnitude of curling [to wish] or a wave, but if the hair winding implement 10 is used, all these patterns are realizable only by changing how winding. The above-mentioned rolling up may be separately performed, for example by using a cylinder-like member as the heart, the member of the shape of said cylinder is drawn out after rolling up, the drawn-out cylindrical member can be used for rolling up of the hair 60 of the other sections also about and curl or wave of uniform magnitude can be given to the whole hair by concomitant use of a small number of cylindrical member to give curl or WEEBU of uniform magnitude to the whole hair. Of course, the conventional rod 51 can be used as said cylindrical member.

[0031] Although things can be carried out, in order [which draws hair 60 smoothly between the sheet object 11 and 15 by combining the hair taking-in implement 20 with this hair winding implement 10] to raise workability more, and in order not to damage hair, the inner surface of a ring 21 (22) is not coarse, and it is desirable that it is smooth. Furthermore <A To HREF="/Tokujitu/tjitemdrw.ipdl?N0000=239&N0500=1E_N/;>?>6=?<9///&N0001=142&N0552=9&N0553=000015" TARGET="tjitemdrw"> drawing 13 It is good for an endocyclic side also as a hair taking-in implement 30 with the ring parts 31 and 32 which gear-tooth 30a was formed at intervals of about 0.6cm, and became a pectinate form so that it may be shown. In this case, while drawing out the hair taking-in implement 30 from between the sheet object 11 and 15, the effectiveness which lets a comb pass can be given. As illustrated to these drawing 7 and drawing 13 , it not only can choose the amount of hair which balanced each by which ring part is used, but [when the ring part 21 (31) from which the direction die length of a major axis differs, and 22 (32) are formed,] either a ring part 21 (31) or the ring part 22 (32) can be considered as a part for a carrying handle, and workability can be improved even if a hand is in slipping or a cone condition.

[0032]

[Effect of the Invention] According to the hair winding implement concerning this invention, as explained in full detail above, the special technique for rolling round hair like before is not needed, but whether it is an amateur or is a technical unripe beautician, hair can be dramatically rolled round with sufficient workability easily. Moreover, since the hair winding implement concerning this invention can change the bore of the winding object formed by that cause to many kinds free, it can make various curl magnitude discover by one kind of dimension object, although the magnitude of the curl which can be formed with one rod was conventionally limited to one. Moreover, it is not limited at all and curl of a variety besides the curl in the condition of having twisted the part, and the curl in the condition that the shape of zigzag was crooked can be made to discover as a curl gestalt which may be made to discover. Furthermore, according to the hair taking-in implement concerning this invention, the taking-in activity of the hair into a hair winding implement can be done easily and simple by using together with said hair winding implement.

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the typical perspective view having shown the hair winding implement concerning the gestalt of operation of this invention.

[Drawing 2] (a) is the typical front view having shown the hair winding implement concerning the gestalt of operation, and (b) is the typical side elevation.

[Drawing 3] (--- a ---) --- operation --- a gestalt --- starting --- hair --- winding --- an implement --- typical --- a plan --- it is --- (--- b ---) --- the --- typical --- a bottom view --- it is --- (--- c ---) --- drawing 2 --- it can set --- AA --- ' --- a sectional view --- it is --- (--- d ---) --- drawing 2 --- R --- > --- two --- it can set --- BB --- ' --- a sectional view --- it is .

[Drawing 4] It is the typical perspective view having shown the other examples of the hair winding implement concerning the gestalt of operation.

[Drawing 5] The hair winding implement concerning the gestalt of operation is still more nearly another, and also it is the typical top view having shown the example.

[Drawing 6] The hair winding implement concerning the gestalt of operation is still more nearly another, and also it is the typical top view having shown the example.

[Drawing 7] It is the typical top view having shown the hair taking-in implement concerning the gestalt of operation.

[Drawing 8] It is the typical perspective view having shown the condition of having arranged the hair taking-in implement to the hair winding implement concerning the gestalt of operation.

[Drawing 9] (a) - (d) is the typical perspective view shown in order of the process, in order to explain the curl grant approach concerning the gestalt of operation.

[Drawing 10] It is the typical perspective view shown in order to explain the bow of the hair by the hair winding implement concerning the gestalt of operation, or the regulation approach of a crookedness condition.

[Drawing 11] It is the typical perspective view shown in order to explain the regulation approach of another bow of the hair by the hair winding implement, or a crookedness condition.

[Drawing 12] It is the typical perspective view shown in order to explain still more nearly another bow of the hair by the hair winding implement, or the regulation approach of a crookedness condition.

[Drawing 13] It is the typical top view having shown the other examples of the hair taking-in implement concerning the gestalt of operation.

[Drawing 14] It is the typical perspective view having shown the conventional hair winding implement.

[Drawing 15] (a) - (d) is the typical perspective view shown in order to explain the conventional curl grant approach.

[Drawing 16] It is the typical perspective view having shown example of another of the rod of the conventional hair winding implement.

[Description of Notations]

10, 17, 18, 19 Hair winding implement

10A [] a cylinder part

10B [] the guide section

10C [] the piece of **
10D [] a winding object
11, 15, 54,111,112 Sheet object
12,121 Cut section
13 14 Wire
16 [] Method of Winding Inside of the Body
20 30 Hair taking-in implement
21, 22, 31, 32 Ring part
21a, 22a, 31a, 32a Hole
23 [] Cylindrical Section
30a [] a gear tooth
50 [] Hair Winding Implement
51 55 Rod
52 [] Rubber Band
53 [] Pin
60 [] Hair
61 [] Hair Ends

[Translation done.]

* NOTICES *

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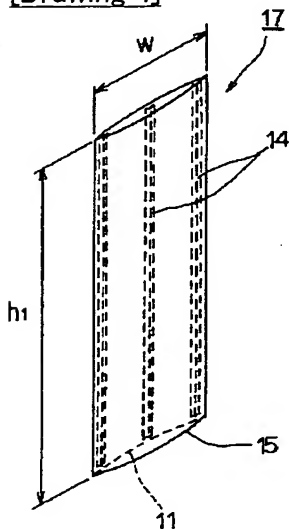
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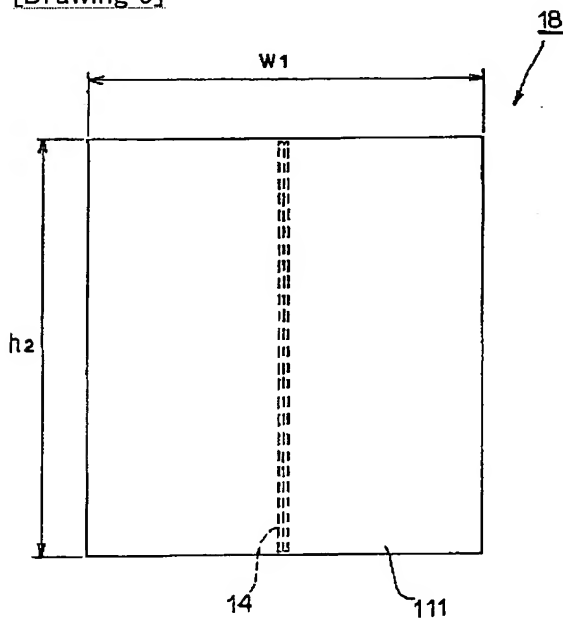
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DRAWINGS

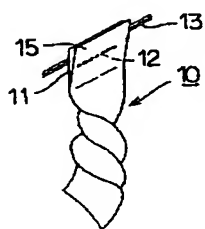
[Drawing 4]



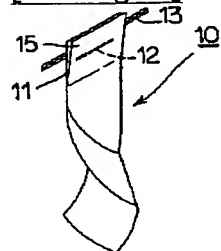
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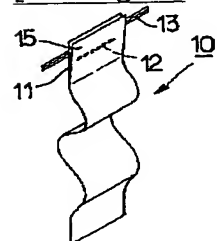
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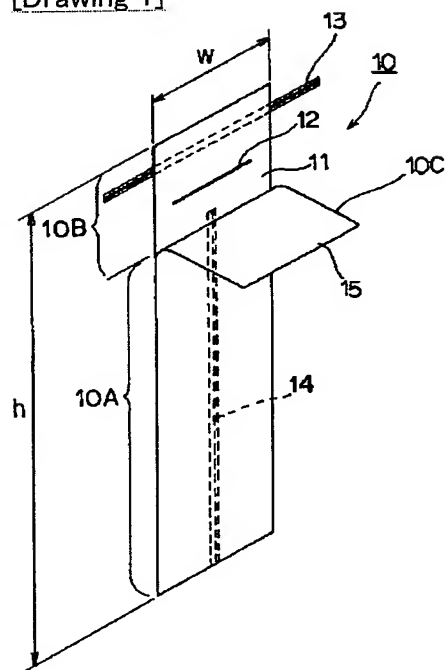
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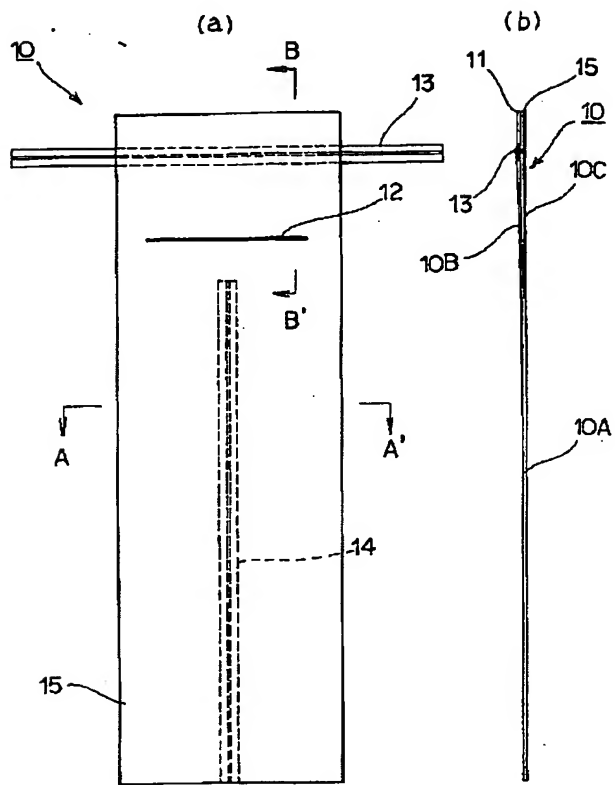
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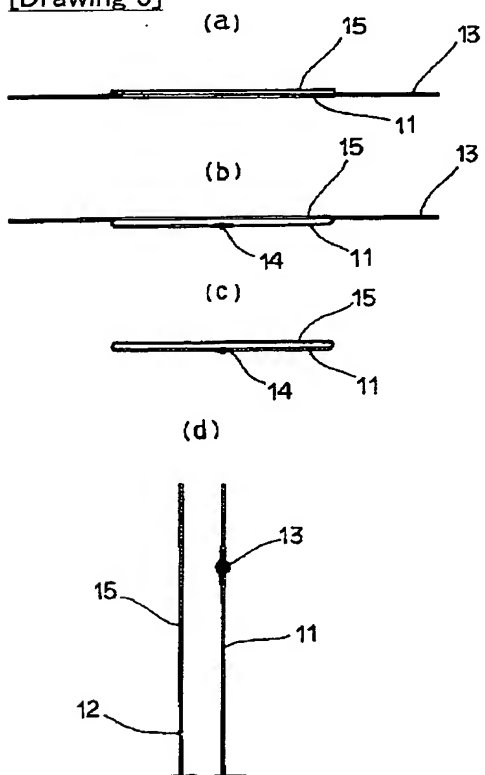
[Drawing 1]



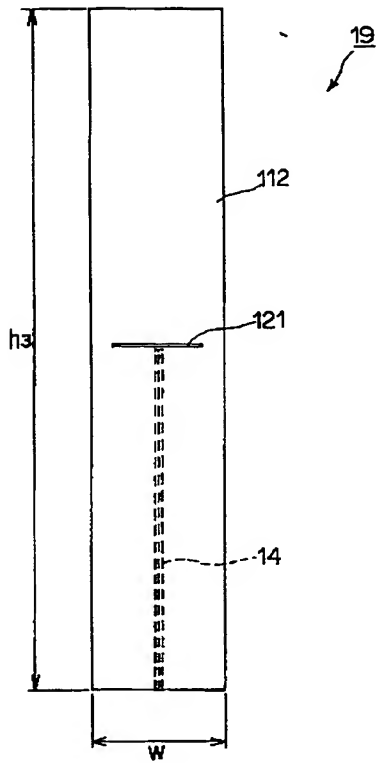
[Drawing 2]



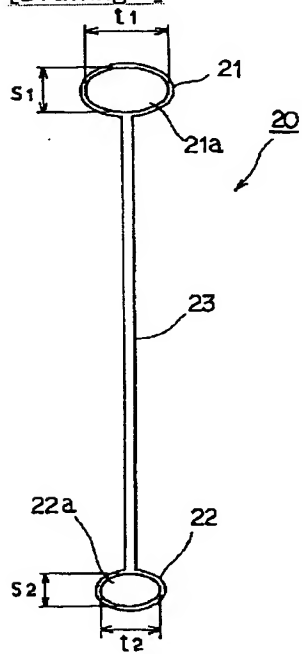
[Drawing 3]



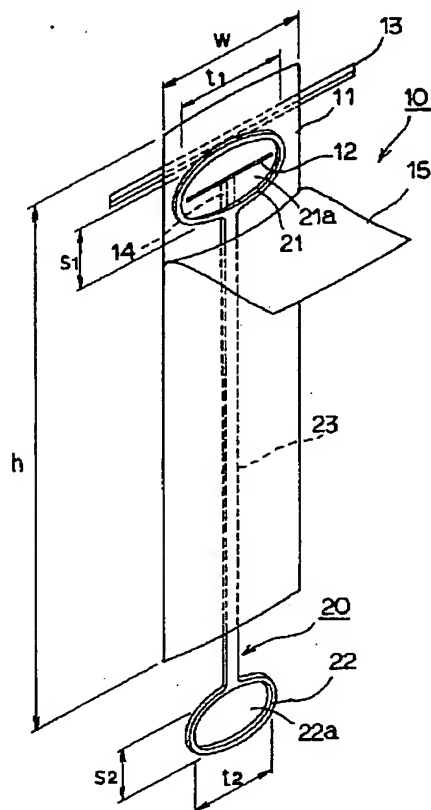
[Drawing 6]



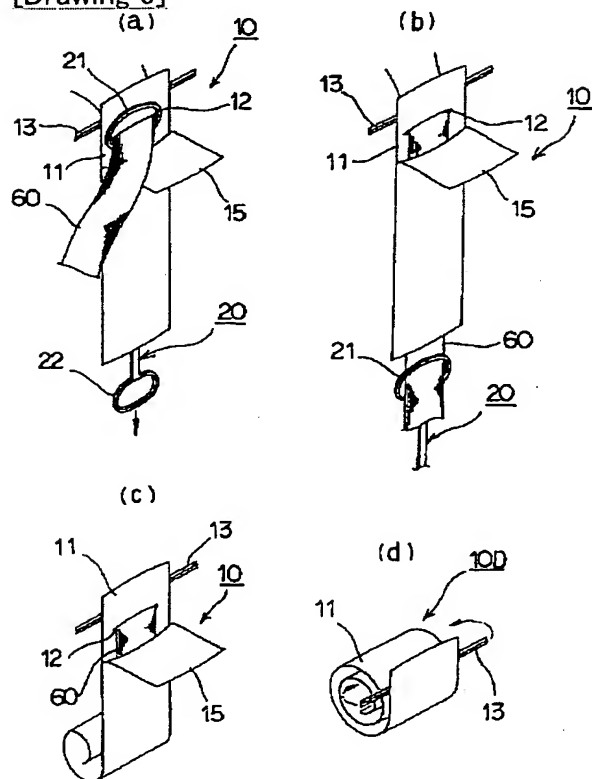
[Drawing 7]



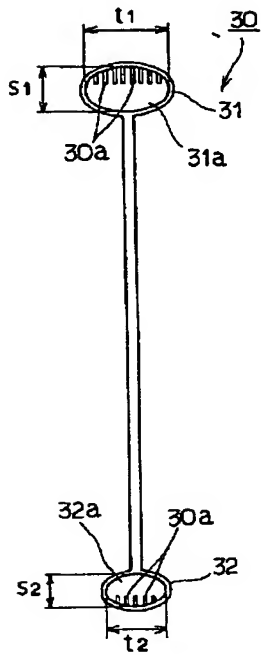
[Drawing 8]



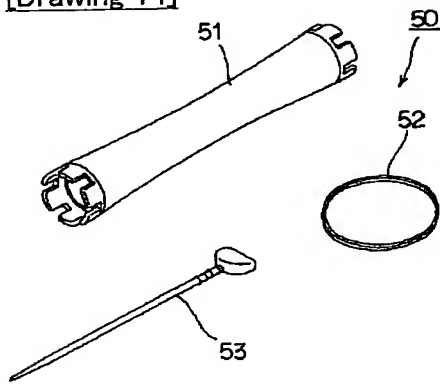
[Drawing 9]



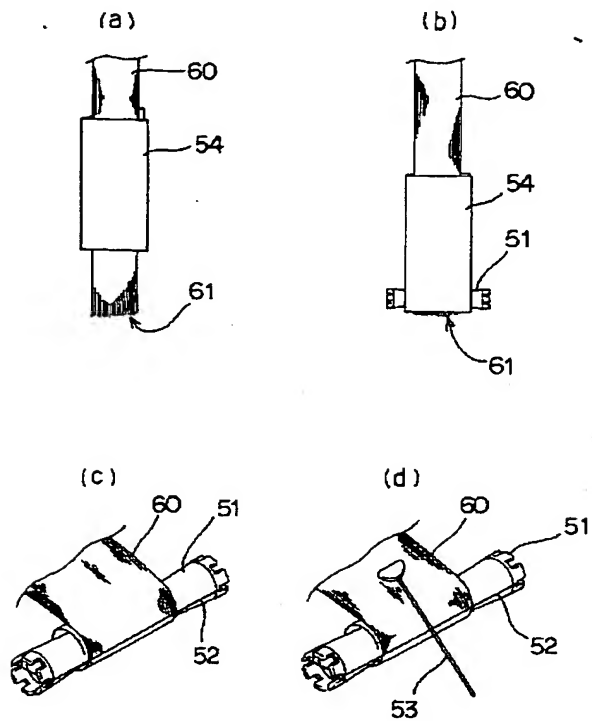
[Drawing 13]



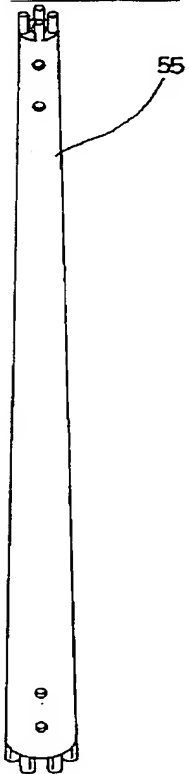
[Drawing 14]



[Drawing 15]



[Drawing 16]



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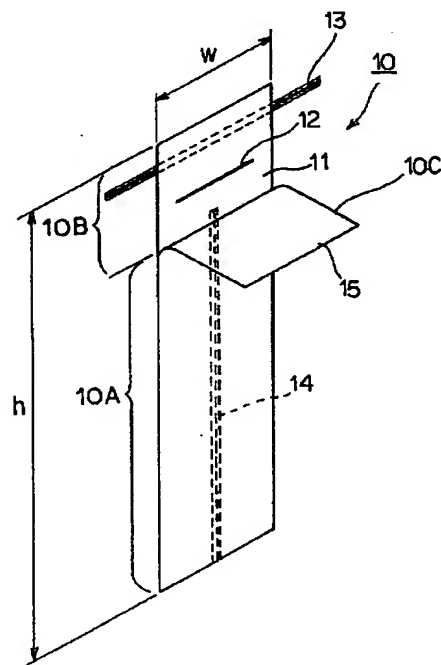
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(54) 【発明の名称】 毛髪巻取具およびそれを用いた毛髪巻取方法

(57) 【要約】

【課題】 取り扱いが簡単で、特別な技術を要さず、作業性が良く、未熟な美容師や素人であっても、また、本人が本人の毛髪を巻き取る場合であっても技術レベルに関係なく容易に巻き取ることが可能な、応用範囲の広い毛髪巻取具およびそれを用いた毛髪巻取方法を提供すること。

【解決手段】 屈曲自在で且つその屈曲形状を保持可能な塑性変形部材をシート体11(15)又は筒状体に取り付けてなり、シート体11(15)により毛髪60を包囲した状態または筒状体内側に毛髪60を取り込んだ状態で塑性変形部材を変形させることにより毛髪60の湾曲、屈曲または巻回状態を保持する毛髪巻取具10。



【特許請求の範囲】

【請求項1】 屈曲自在で且つその屈曲形状を保持可能な塑性変形部材をシート体又は筒状体に取り付けてなり、前記シート体により毛髪を包囲した状態または前記筒状体内側に毛髪を取り込んだ状態で前記塑性変形部材を変形させることにより毛髪の湾曲、屈曲または巻回状態を保持する毛髪巻取具。

【請求項2】 シート体により毛髪を包囲した状態または筒状体内側に毛髪を取り込んだ状態時に、前記塑性変形部材の長さ方向が毛髪の長さ方向と略平行に位置するよう、一部又は全ての前記塑性変形部材が前記シート体又は筒状体に単または複数本配設されていることを特徴とする請求項1記載の毛髪巻取具。

【請求項3】 シート体により毛髪を包囲した状態または筒状体内側に毛髪を取り込んだ状態時に、前記塑性変形部材の長さ方向が毛髪の長さ方向と略垂直に位置するよう、一部又は全ての前記塑性変形部材が前記シート体又は筒状体に単または複数本配設されていることを特徴とする請求項1記載の毛髪巻取具。

【請求項4】 シート体により毛髪を包囲した状態または筒状体内側に毛髪を取り込んだ状態時に、一部の前記塑性変形部材の長さ方向が毛髪の長さ方向と略平行に位置し、他部の前記塑性変形部材の長さ方向が毛髪の長さ方向と略垂直に位置するよう、前記塑性変形部材が前記シート体又は筒状体に配設されていることを特徴とする請求項1記載の毛髪巻取具。

【請求項5】 シート体又は筒状体に、毛髪を挿通させる切込部が形成されていることを特徴とする請求項1～4のいずれかの項に記載の毛髪巻取具。

【請求項6】 複数のシート体がその上部所定箇所を除く長手方向両側部を接着されて略筒状体となり、一方のシート体の前記上部に短手方向に延びる切込部が形成され、該切込部の略中央部から長手方向に沿って第1の塑性変形部材が取り付けられると共に、一方または他方の前記シート体の上部または下部に短手方向にその長さを有する第2の塑性変形部材が取り付けられ、該第2の塑性変形部材は前記シート体の長手方向両側部を越えて延設されるものであることを特徴とする毛髪巻取具。

【請求項7】 請求項1～4のいずれかの項に記載の毛髪巻取具と共に用いられ、毛髪をシート体に包囲される位置または筒状体の内側に配置するための毛髪取込具であって、棒状体の端部に毛髪を包囲可能な環部または鉤状部が一体形成されてなる毛髪取込具。

【請求項8】 環部または鉤状部の内側全面又は一部が毛髪を梳き得る櫛状になっていることを特徴とする請求項5記載の毛髪取込具。

【請求項9】 請求項1～4のいずれかの項に記載の毛髪巻取具におけるシート体で毛髪を包囲し、または筒状体内側に毛髪を取り込み、塑性変形部材を変形させることで毛髪の湾曲、屈曲または巻回状態を形成および保持

する毛髪巻取方法。

【請求項10】 請求項1～4のいずれかの項に記載の毛髪巻取具のシート体上または筒状体内側に請求項5または請求項6記載の毛髪取込具を位置合わせし、前記毛髪取込具の環部または鉤状部に毛髪を挿通させた後、前記毛髪取込具をシート体上または筒状体内側から外方へ移動させることにより、毛髪をシート体で包囲した状態、または毛髪を筒状体内側に取り込んだ状態とし、前記毛髪巻取具の塑性変形部材を変形させて毛髪の湾曲、屈曲または巻回状態を形成および保持する毛髪巻取方法。

【請求項11】 請求項4に記載の毛髪巻取具の切込部と請求項5または請求項6のいずれかの項に記載の毛髪取込具の環部または鉤状部とを位置合わせし、これら切込部、および環部または鉤状部に毛髪を挿通させ、前記毛髪取込具をシート体上または筒状体内側から外方へ移動させることにより、毛髪をシート体で包囲した状態、または毛髪を筒状体内側に取り込んだ状態とし、前記毛髪巻取具の塑性変形部材を変形させて毛髪の湾曲、屈曲または巻回状態を形成および保持する毛髪巻取方法。

【発明の詳細な説明】

【0001】

【発明の属する技術分野】本発明は毛髪巻取具およびこれを用いた毛髪巻取方法に関し、より詳細には塑性変形部材を取り付けてなる毛髪巻取具および前記塑性変形部材の変形により毛髪の湾曲、屈曲または巻回状態を形成および保持する毛髪巻取方法に関する。

【0002】

【従来の技術】老若男女を問わず、人間は様々なヘアスタイルを採用することによって自らの個性や雰囲気演出しようとする。その際、ヘアカットによるヘアスタイルの発現もさることながら、毛髪巻取具によって毛髪の湾曲、屈曲または巻回状態を保持し、毛髪にカール付与してヘアスタイルを発現させる場合も多い。

【0003】前記毛髪巻取具としてはロッドと呼ばれる中空円柱状の部材が用いられることが多く、図14においては前記ロッドを説明するために、例としてパーマ付与時に用いられる毛髪巻取具一式を示した。図例の毛髪巻取具一式50は、毛髪をその表面に巻き付けるロッド51と、毛髪を巻いた状態のロッド51をその長手方向にそって括る輪ゴム52と、ロッド51表面に巻かれた毛髪に輪ゴム52の括り跡が残らないよう、ロッド51を括っている輪ゴム52とロッド51表面に巻かれた毛髪との間に隙間を形成するためのピン53とからなっている。

【0004】前記した従来のロッド51を用いて毛髪を巻き取る工程は図15に示す通りである。まず毛髪60を櫛等により適当量すくい取り、吸水性の良好な紙等からなるシート体54等を半分に折るようにして毛髪60を挟持する(図15(a))。この時、毛髪60を濡ら

しておく扱いやすい。次にこの毛髪60をシート体54ごと毛先61側からロッド51に巻き取り(図15(b))、次に毛髪60が巻かれたロッド51をその長手方向に輪ゴム52で括り(図15(c))、この輪ゴム52の跡が毛髪に付かないように輪ゴム52と毛髪60との間にピン53を挟み込んでおく(図15(d))。

【0005】また、特に縦方向へうねり状のカールを施したい場合は、図16に示すような円錐形状に近い縦長のロッド55を用い、このロッド55にらせん状に巻き付けるようにして毛髪巻き取りを行う。

【0006】上記ロッド51、55は例えばパーマ処理時にも用いられ、該パーマ処理は一般に美容室等において専門技術を有する者(美容師)に委託される場合が多いが、本人の希望するヘアスタイルを口述により伝達するのは容易ではなく、本人と美容師との間にイメージのギャップが生じて思いどおりの毛髪巻き取りが行えない場合がある。また、費用が高むことから、最近では家庭で行えるよう前記毛髪巻取具一式50とパーマ処理液等をセットにした商品も販売されており、美容室まで行かなくても本人が自分で又は知人同士でパーマ付与を行うことが可能になってきている。

【0007】しかしながら従来のロッド51、55等を用いて毛髪巻き取りを行う場合には下記のような課題があった。すなわち、ロッド51、55を使用して毛髪60を巻き取る際、毛先61をスムーズに巻き取るにはある程度高い技術力を要し、未熟な美容師や素人が行うと毛先61等が折れ曲がった状態のまま毛髪60を巻き取ってしまう場合がある。特にこの状態でパーマ処理を行った場合は、毛先61の折れ曲がり状態はそのまま固定されることとなり、ドライヤーの熱によっても前記状態を改善することは困難となる。また、櫛等によりすくい取った毛髪60をロッド51に整然と巻き付けるのにはある程度高い技術力を要し、特に毛先が不揃いな毛髪を巻き付ける場合においては何本かの毛髪が飛び出てしまいがちである。また、毛髪を巻き取ったロッド51が転がらないよう輪ゴム52等で括っても、その括る位置によってはさらにロッド51が転がり易く、巻き取った状態を保持しにくい。

【0008】このように、従来のロッド51、55を用いて毛髪60を巻き取るにはある程度高い技術力が必要であり、未熟な美容師や素人が行うとロッド51へ毛髪60を巻回させるのに時間がかかったり、仕上がりが思わしくなかったりする場合が多く、まして本人が本人の毛髪を巻き取るのはかなりの熟練者であっても容易ではないといった課題があった。

【0009】

【発明が解決しようとする課題】本発明は上記課題に鑑みなされたものであり、取り扱いが簡単で、特別な技術を要さず、作業性が良く、未熟な美容師や素人であって

も、また、本人が本人の毛髪を巻き取る場合であっても技術レベルに関係なく容易に巻き取ることが可能な、応用範囲の広い毛髪巻取具及びそれを用いた毛髪巻き取り方法を提供することを目的としている。

【0010】

【課題を解決するための手段】上記目的を達成するために本発明に係る毛髪巻取具は、屈曲自在でその屈曲形状を保持可能な塑性変形部材をシート体又は筒状体に取り付けてなり、前記シート体により毛髪を包囲した状態または前記筒状体内側に毛髪を取り込んだ状態で前記塑性変形部材を変形させることにより毛髪の湾曲、屈曲または巻回状態を形成および保持することを特徴としている。

【0011】前記塑性変形部材の一部又は全ては、シート体により毛髪を包囲した状態または筒状体内側に毛髪を取り込んだ状態時に、前記塑性変形部材の長さ方向が毛髪の長さ方向と略平行に位置するよう、前記シート体又は筒状体に単または複数本配設されているのが好ましく、また前記塑性変形部材の一部又は全ては、シート体により毛髪を包囲した状態または筒状体内側に毛髪を取り込んだ状態時に、前記塑性変形部材の長さ方向が毛髪の長さ方向と略垂直に位置するよう、前記シート体又は筒状体に単または複数本配設されているのが好ましい。また、一部の塑性変形部材の長さ方向が毛髪の長さ方向と略平行に位置し、他部の塑性変形部材の長さ方向が毛髪の長さ方向と略垂直に位置するよう、前記シート体又は筒状体に単または複数本配設されているのが好ましい。

【0012】また、シート体又は筒状体に毛髪を挿通させる切込部が形成されているのが好ましく、これら毛髪巻取具の具体例としては、複数のシート体がその上部所定箇所を除く長手方向両側部を接着されて略筒状体となり、一方のシート体の前記上部に短手方向に延びる切込部が形成され、該切込部の略中央部から長手方向に沿って第1の塑性変形部材が取り付けられと共に、一方または他方の前記シート体の上部または下部に短手方向にその長さを有する第2の塑性変形部材が取り付けられ、該第2の塑性変形部材は前記シート体の長手方向両側部を越えて延設されるものである毛髪巻取具が上げられる。

【0013】これら毛髪巻取具は次のような毛髪取込具と共に用いられると作業性がよい。前記毛髪取込具とは、毛髪をシート体に包囲される位置または筒状体の内側に配置するためのものであって、棒状体の端部に毛髪を包囲可能な環部または鉤状部が一体形成されてなるものである。前記環部または鉤状部の内側面又は一部が毛髪を梳き得る櫛状になっているのが好ましく、このような毛髪取込具および前記したような毛髪巻取具により毛髪の巻き取りを行うには、以下のようにする。

【0014】すなわち、前記毛髪巻取具のシート体に毛

髪を包囲し、または筒状体内側に毛髪を取り込み、塑性変形部材を変形させることによって毛髪の湾曲、屈曲または巻回状態を形成及び保持する。この時、前記毛髪巻取具のシート体上または筒状体内側に前記毛髪取込具を位置合わせし、前記毛髪取込具の環部または鉤状部に毛髪を挿通させ、前記毛髪取込具をシート体上または筒状体内側から移動させることにより、シート体で毛髪を包囲した状態、または筒状体内側に毛髪を取り込んだ状態とし、その後前記塑性変形部材の変形作業を行うのが好ましい。また、前記毛髪巻取具が前記切込部を有する場合は、該切込込み部と毛髪取込具の環部または鉤状部とを位置合わせし、これら切込部、および環部または鉤状部に毛髪を挿通させ、前記毛髪取込具をシート体上または筒状体内側から外方へ移動させることにより前記作業を行うとより好ましい。

【0015】

【発明の実施の形態】以下、本発明の実施の形態に係る毛髪巻取具を図面に基いて説明する。図1は実施の形態に係る毛髪巻取具を示した模式的斜視図である。なお、図2(a)はその模式的正面図、図2(b)はその模式的側面図、図3(a)は図2(a)におけるAA'断面図、図3(b)は図2(a)におけるBB'断面図である。これら図1～3に示されるように、実施の形態に係る毛髪巻取具は例えば平面視長方形形状のシート体が2枚重なって筒状体を形成してなるものであり、筒部10Aと、筒部10Aの一側片から延設されるガイド部10B、および筒部10Aの他側片から延設され、ガイド部10Bと重ね可能な遊片10Cを含んでなっている。片方のシート体11の図中上部すなわちガイド部10Bにはシート体11の短手方向に沿ってその長さを有する切込部12が形成されており、この切込部12の上方には同じくシート体11の短手方向に沿って長さを有し、シート体11の幅寸法を越える長さを有した、塑性変形部材の一例としてのワイヤ13が取り付けられている。ここで言うワイヤとは、金属片や、合成樹脂を外装した針金のことを言い、ワイヤ13の取り付けは例えば図3(d)に示されるように埋込成形によりシート体11と一体的に取り付けられていてもよいし、別例としては接着または融着等によりシート体11に取り付けられていてもよい。またシート体11の切込部12下方であってシート体11の長手方向に沿った略中央部にはシート体11の長手方向に沿ってその長さを有する塑性変形部材の一例としてのワイヤ14が取り付けられている。このワイヤ14の概念および取り付けに関してもワイヤ13の場合と同様のことが言える。このように、ワイヤ13、14が取り付けられたシート体11にこれと同程度の大きさをもったもう一方のシート体15を重ねられ、図中上部すなわちガイド部10B及び遊片10Cを除く長手方向両側部が接着されて筒部10Aとなり、毛髪巻取具10は構成されている。ワイヤ13、14の取

り付けは何ら片方のシート体11のみに限定されるものでないことは勿論である。

【0016】前記塑性変形部材とは、一般に本実施の形態で例示されているワイヤ13、14のように、屈曲自在であってその屈曲形状を保持可能な部材をいうが、本発明においてはこれ他に、例えば形状記憶合金や形状記憶樹脂等のように力の作用でなく熱等の作用により変形するものも前記塑性変形部材に含むものとする。いずれの場合も、パーマ液等によって錆びたり化学変化を起こしたりすることのないよう、塩化ビニル等の合成樹脂でコーティングされているのが好ましい。シート体11、15の素材としては吸水性、保水性、耐薬品性、耐熱性が良好な素材が好ましく、例えば和紙や不織布等が挙げられる。また、例えば屈曲自在であって形状保持性を有した繊維片が折り込まれることによりそれ自体が屈曲自在となったシート体であってもよい。ワイヤ13、14としては針金等を塩化ビニル等で被覆したものが例示されるが、錆びにくく、屈曲自在で形状保持性を有したものであれば何ら限定されるものでない。また、巻回状態保持を主目的として例えば両端に互いに係止可能な面ファスナーが取り付けられた帯状物をワイヤ13の代わりに取り付けてもよく、この場合、前記面ファスナーの係止によって簡単に毛髪巻取具の湾曲または屈曲状態を保持することが可能となる。さらに前記巻回状態保持を主目的としてクリップ等を用いてもよく、該クリップ等により巻回体の一部または全体を挟持してもよい。さらにワイヤ13、14の取り付け位置は上記実施の形態に例示された位置に限定されることはなく、ワイヤ13にあっては例えばシート体11の図中下部に取り付けられていてもよく、また、ワイヤ14にあってはシート体11の側方部分に複数取り付けられていてもよい。

【0017】本発明に係る毛髪巻取具は何ら上記構成に限定されるものでなく、図4に示すように、切込部12(図1)がなく、ガイド部10B、遊片10C(いずれも図1)のいずれもない、図中上端部までの長手方向両側部が接着された筒部10Aのみからなる毛髪巻取具17であってもよい。この場合、ワイヤ14は図例のようにシート体11の側方部分及び略中央部分に複数のワイヤ14が取り付けられていてもよいし、略中央部分のみ、または側方部分のみに単または複数のワイヤ14が取り付けられていてもよい。さらには図5に示すように、筒状体を呈するものでなく、シート体111にワイヤ14が例えば中央部に取り付けられた毛髪巻取具18であってもよい。この場合、ワイヤ14が略中央部分のみならず両側方部分に取り付けられていてもよいことは勿論である。これら毛髪巻取具18においては、ワイヤ14を毛髪の流れに沿わせた状態でシート体111により毛髪を被覆し、全体をひねるようにして毛髪を巻き取る方法が考えられる。また、図6に示すようにシート体112の略中央部に短手方向に伸びる切込部121が形成

され、切込部121からどちらか一方または双方のシート端に向かって塑性変形部材14が取り付けられてなる毛髪巻取具19であってもよい。この場合、切込部121から手前に毛髪を挿通させ、切込部121付近からシート体112を二つ折りすることで毛髪を保持し、上記方法と同様にして毛髪を巻き取る方法が考えられる。この場合も、ワイヤ14の取り付け本数、取り付け箇所は何ら限定されるものでない。

【0018】ここで図1に示した毛髪巻取具10の寸法を例示すると以下の通りであるが、何ら以下の寸法に限定されないことは勿論である。例えばシート体11、15の寸法は縦(h)×横(w)=18cm×5cm程度で上端から1cm程度下方にワイヤ13が取り付けられていて、このワイヤ13はシート体11の長辺から両側方に2cm程度づつ露出している。ワイヤ13から1.5cm程度下方には幅寸法が3.5cm程度の切込部12が形成されており、シート体11には切込部12の略中間部近傍からシート体11の下端まで延びるワイヤ14が内在している。また、シート体11、15はそれぞれの上端から4cm下方までの部分を除いてその両側辺部が接着されており、略筒状を呈している。また、図4、図5に示した毛髪巻取具17、18の縦寸法

(h₁)、(h₂)は毛髪巻取具10の縦寸法(h)と同程度であるのが一般的と考えられ、図6に示した毛髪巻取具19の縦寸法(h₃)は毛髪巻取具10の縦寸法(h)より長いのが一般的と考えられ、図4、図6に示した毛髪巻取具17、19の横寸法(w)は毛髪巻取具10の横寸法(w)と同程度であるのが一般的と考えられ、図5に示した毛髪巻取具18の横寸法(w₁)は毛髪巻取具10の横寸法(w)より長いのが一般的と考えられ図るが、何らこれらに限定されるものでない。

【0019】このように構成された毛髪巻取具10(17~19)は図7に示すような毛髪取込具20を用いるとより効率的に作業を進めることができる。毛髪取込具20は例えば毛髪巻取具10のシート体11、15間に装備されて用いられ、その形状は例えば図例のように両先端部分が環部21、22となっていて、これら環部21、22が棒状部23を介して取り付けられてなっている。

【0020】毛髪取込具20の素材としては例えば各種プラスチックが挙げられ、エポキシ樹脂等の熱硬化性樹脂、ポリエチレン等の熱可塑性樹脂のいずれを用いてもよいが、パーマ処理時にも用いることが可能であるよう、耐薬品性の高い素材であることが好ましい。

【0021】毛髪取込具20の寸法を例示すると以下の通りであるが、何ら以下の寸法に限定されないことは勿論である。例えば棒状部23は18cm程度であり、この棒状部23の一端に一体形成された環部21の孔21aの長軸方向長さ(t₁)は4.5cm程度、短軸方向長さ(s₁)は2.0cm程度であり、棒状部23の他

端に一体形成された環部22の孔22aの長軸方向長さ(t₂)は3.25cm程度、短軸方向長さ(s₂)は1.5cm程度である。

【0022】この毛髪取込具20は図8に示すように毛髪巻取具10のシート体11、15間に介装し、環部21(22)の孔21a(22a)を切込部12と位置合わせして用いる。環部21、22は例えば切込部12の長さ方向に長い楕円形状であって、それぞれの孔21a、22aの長軸方向長さt₁、t₂は取込む毛髪量に併せて異なる長さを有している。この毛髪取込具20はシート体11、15間に介装する必要性からいっても環部21、22の横方向寸法がシート体11、15の幅寸法よりも小さいのが好ましい。

【0023】この毛髪巻取具10及び毛髪取込具20を用いて例えば従来のようにロッドに巻き取った如く毛髪の湾曲または屈曲状態を規制するには、図9(a)~

(d)の工程順に作業を進める。まず切込部12を有するシート体11側を頭髪表面に当接させるよう、毛髪取込具20を介装した毛髪巻取具10を配置し、切込部12および毛髪取込具20の孔21aから毛髪60を手前にすくい出す(図9(a))。毛髪60のすくい出しは櫛の柄の部分等を利用すると作業性が良い。次に毛髪取込具20を図中下方に滑動させて毛髪巻取具10のシート体11、15間から引き抜く。該作業により毛髪60は毛髪取込具20の環部21の環内面21bに撫でられるようにしてシート体11、15間に取込まれる(図9(b))。この状態のまま毛髪巻取具10を例えば毛先61を覆い得る位置までずらし、毛髪60をシート体11、15間に保持したまま毛髪巻取具10を毛先61方向から内側に巻き込んでゆく(図9(c))。巻き込む方向は内側方向に限定されるものでなく、外側方向であってもよい。ワイヤ13の位置まで巻き込んで巻回体10Dとしたら、この巻回体10Dの中空部16にワイヤ13をその先端部から差し込んで巻回体10D内方に屈曲することにより巻回体10Dの巻回状態を押さえ止める(図9(d))。この時、ワイヤ13の代わりにクリップ等で巻回体10Dの一部または全体を挟み止めてもよいことは前述の通りである。

【0024】このような方法において上記図9(a)の工程時又はその前に毛髪60にパーマ処理液を施し、上記した巻き取りを行えば、パーマ処理にも応用することができる。

【0025】上記した毛髪巻取具10によれば、上記図9(b)の工程時にシート体11、15間に毛髪60を収容することができるため、一部の毛髪が毛髪60から飛び出るといったことがなく、従来のように毛髪60から毛髪が飛び出ないように指で挟持しつつロッド51に巻き付けるといった技術を必要としない。また、例えばパーマ処理に応用する場合、毛髪60に付与したパーマ処理液はシート体11、15間に一旦保有されることとな

り、その後の作業工程において前記パーマ付与液が滴り落ちるのを防止することができるため、従来よりも前記パーマ付与液の付与量を少なくすることができる。これによりコストを削減できるとともに、滴り落ちたパーマ付与液が顔や首に付着するのを効果的に防止でき、かぶれたりするのを防ぐことができる。

【0026】また、従来の毛髪巻き取り方法では、シート体54を介して挟持した範囲にロッド51をあて、櫛の柄先端等を利用して毛先61を巻き込む場合が多く、この方法だと毛先61が折れた状態で巻き込まれやすく、毛先61をスムーズに巻き取るにはある程度の技術を必要とするが、上記説明した毛髪巻取具10を用いる方法によれば、毛先61までシート体11、15で覆った状態で巻きはじめることができるため、毛先が折れにくい。シート体11、15間に毛髪60を保持した後は、櫛等を一切用いる必要がなく、毛髪巻取具10はシート体11、15による面接触にて毛髪60に接することとなるため毛髪60から滑り落ちにくく、ロッド51を用いる場合のように常時ロッド51と毛髪60とを押さえながら巻き込み作業を行うといった技術を必要としない。すなわちシート体11、15間に毛髪60を保持した後は両手を放しても何ら差し支えないのであって、不慣れた素人であっても最初から何度も作業をやり直すといった必要がない。また上記方法では何度も櫛通しをしなくともよいため、毛髪が痛みにくい。

【0027】また、毛髪巻取具10の長手方向の略中央部には形状保持性を有する塑性変形部材であるワイヤ14が装着されているため、巻回作業の途中で手を放しても前記途中までの巻回状態は保持されるため、最初から巻きなおす等の必要がなく、作業性を向上させることができる。また、ワイヤ14が弾性に優れた素材である場合は、前記弾性を利用して弧状態を形成しやすく、より作業性を向上させることができる。

【0028】また、巻回後はワイヤ13を巻回体中空部16内方に屈曲することで前記巻回状態を保持することができるため、従来の場合のように輪ゴム52等により括り止めする必要がなく、屈曲したワイヤ13は外れにくいいため、より確実また簡単に巻回状態を保持することができる。また、ワイヤ13は毛髪60と直接は接触せず、毛髪に止め後が残りにくい。

【0029】このような毛髪巻取具10は様々な形状に変形させることができ、例えば図10に示すように振じった状態で毛髪60の形状を保持することもできる。この時、図11のように一部を振じることにより、毛髪60の一部に特定のひねり形状を付与することも可能である。また、図12に示すようにアコーディオン状に折り畳んだ形状とすることで、毛髪60に特定のうねり形状を付与することも可能である。この他、毛髪巻取具10の形状アレンジには様々なパターンが考えられ、個人の工夫によって人とは違ったヘアスタイルを発現させるこ

とが可能となる。

【0030】また、従来のロッド51、55を用いる方法の場合は、希望するカール又はウェーブの大きさ毎に様々な径や長さ、及び形状のロッド51、55を用いる必要があったが、毛髪巻取具10を用いれば、巻き方を変えるだけでこれら全てのパターンを実現することができる。頭髪全体に均一な大きさのカール又はウェーブを付与したい場合は、別途例えば円柱状の部材を芯として上記巻き取りを行ってもよく、巻き取り後に前記円柱状の部材を引き抜いてその引き抜いた円柱状部材を他部の毛髪60の巻き取りに使い回すこともでき、少数の円柱状部材の併用で頭髪全体に均一な大きさのカール又はウェーブを付与することができる。前記円柱状部材として従来のロッド51を用いることができるのは勿論である。

【0031】この毛髪巻取具10に毛髪取込具20を組み合わせることで、シート体11、15間にスムーズに毛髪60を引き込むことできるが、より作業性を向上させるため、および毛髪を傷つけないために環21(22)の内面は粗雑でなく滑らかであるのが好ましい。さらに、図13に示すように環内面に例えば0.6cm程度の間隔で歯30aが形成され、櫛状となった環部31、32を有した毛髪取込具30としてもよい。この場合、シート体11、15間から毛髪取込具30を引き抜くと同時に櫛を通す効果を付与することができる。これら図7、図13に例示したように長軸方向長さの異なる環部21(31)、22(32)が形成されている場合は、どちらの環部を用いるかでそれぞれに見合った毛髪量を選択することができるだけでなく、環部21(31)または環部22(32)のいずれか一方を持ち手部分とすることができ、手が滑りやすい状態であっても作業性を良くすることができる。

【0032】

【発明の効果】以上詳述したように、本発明に係る毛髪巻取具によれば、従来のように毛髪を巻き取るための特別な技術を必要とせず、素人であっても、また技術の未熟な美容師であっても非常に作業性良く簡単に毛髪を巻き取ることができる。また従来は一つのロッドで形成し得るカールの大きさは一つに限定されたが、本発明に係る毛髪巻取具はそれにより形成される巻回体の内径を幾通りにも自在に変化させることができるため、一種類の寸法物で多種のカール大きさを発現させることができる。また、発現させ得るカール形態としては、何ら限定されるものでなく、一部ひねった状態のカール、ジグザグ状の屈曲した状態のカール他、多種のカールを発現させることができる。さらに、本発明に係る毛髪取込具によれば、前記毛髪巻取具と併用することにより、毛髪巻取具内への毛髪の取込作業を容易に、また簡便に行うことができる。

【図面の簡単な説明】

【図1】本発明の実施の形態に係る毛髪巻取具を示した模式的斜視図である。

【図2】(a)は実施の形態に係る毛髪巻取具を示した模式的正面図であり、(b)はその模式的側面図である。

【図3】(a)は実施の形態に係る毛髪巻取具の模式的上面図であり、(b)はその模式的底面図であり、(c)は図2におけるAA'断面図であり、(d)は図2におけるBB'断面図である。

【図4】実施の形態に係る毛髪巻取具の他例を示した模式的斜視図である。

【図5】実施の形態に係る毛髪巻取具のさらに別の他例を示した模式的平面図である。

【図6】実施の形態に係る毛髪巻取具のさらに別の他例を示した模式的平面図である。

【図7】実施の形態に係る毛髪取込具を示した模式的平面図である。

【図8】実施の形態に係る毛髪巻取具に毛髪取込具を配置した状態を示した模式的斜視図である。

【図9】(a)～(d)は実施の形態に係るカール付与方法を説明するために工程順に示した模式的斜視図である。

【図10】実施の形態に係る毛髪巻取具による毛髪の湾曲または屈曲状態の規制方法を説明するために示した模式的斜視図である。

【図11】毛髪巻取具による毛髪の別の湾曲または屈曲状態の規制方法を説明するために示した模式的斜視図である。

【図12】毛髪巻取具による毛髪のさらに別の湾曲または屈曲状態の規制方法を説明するために示した模式的斜

* 視図である。

【図13】実施の形態に係る毛髪取込具の他例を示した模式的平面図である。

【図14】従来の毛髪巻取具を示した模式的斜視図である。

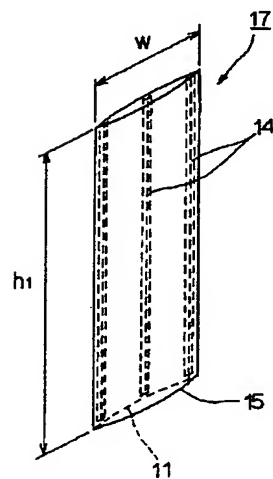
【図15】(a)～(d)は従来のカール付与方法を説明するために示した模式的斜視図である。

【図16】従来の毛髪巻取具のロッドの別例を示した模式的斜視図である。

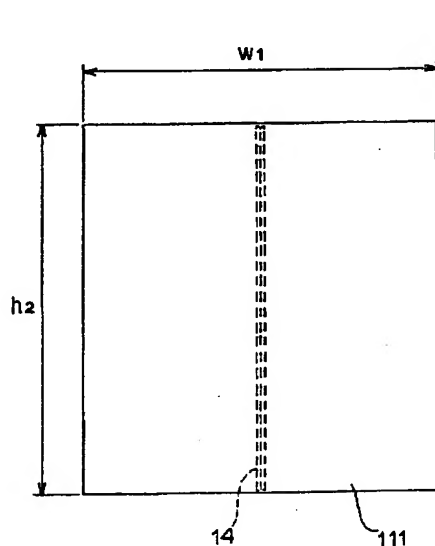
【符号の説明】

10、17、18、19	毛髪巻取具
10A	筒部
10B	ガイド部
10C	遊片
10D	巻回体
11、15、54、111、112	シート体
12、121	切込部
13、14	ワイヤ
16	巻回体内方
20、30	毛髪取込具
21、22、31、32	環部
21a、22a、31a、32a	孔
23	棒状部
30a	歯
50	毛髪巻取具
51、55	ロッド
52	輪ゴム
53	ピン
60	毛髪
61	毛先

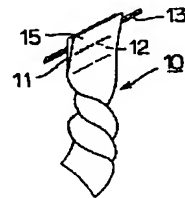
【図4】



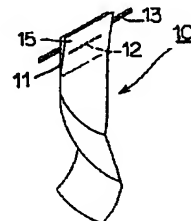
【図5】



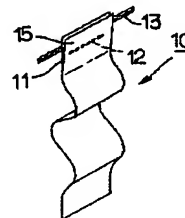
【図10】



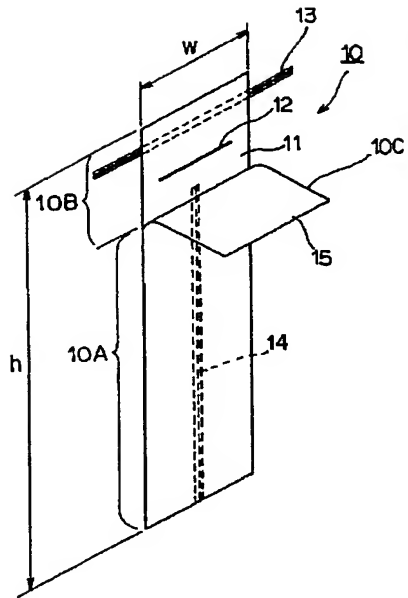
【図11】



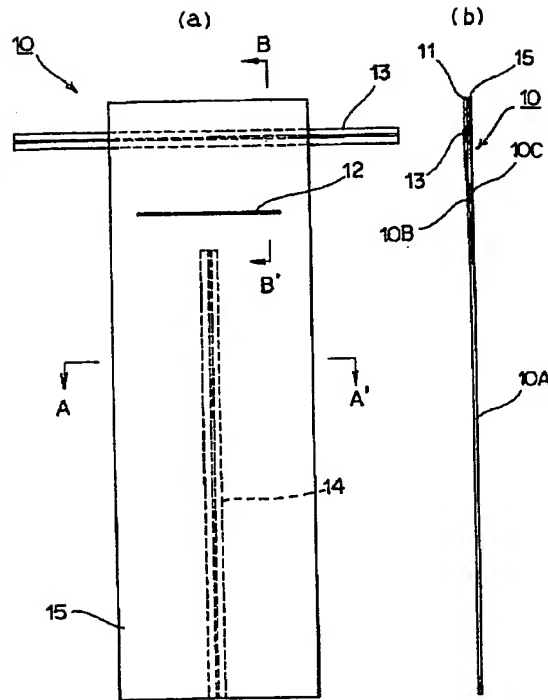
【図12】



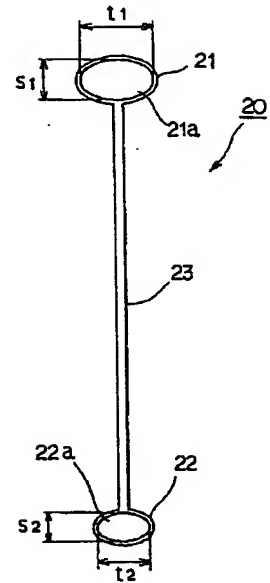
【図1】



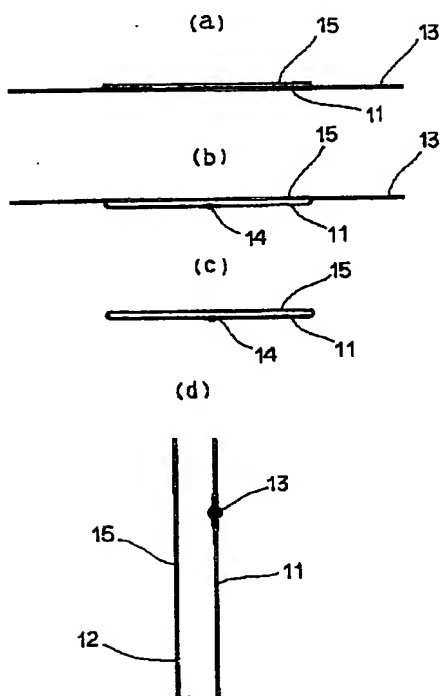
【図2】



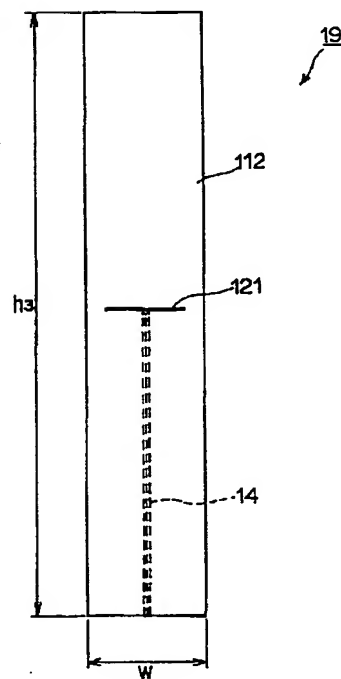
【図7】



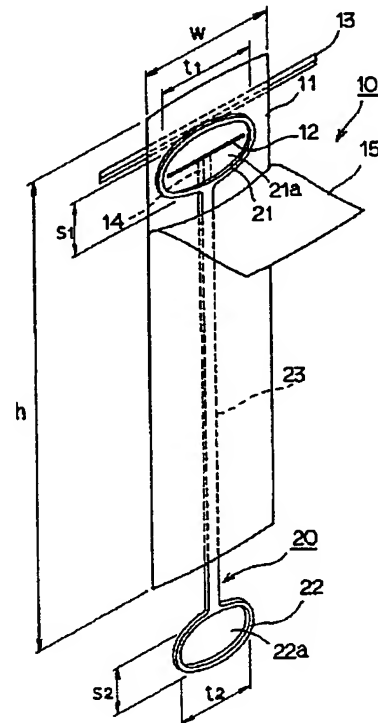
【図3】



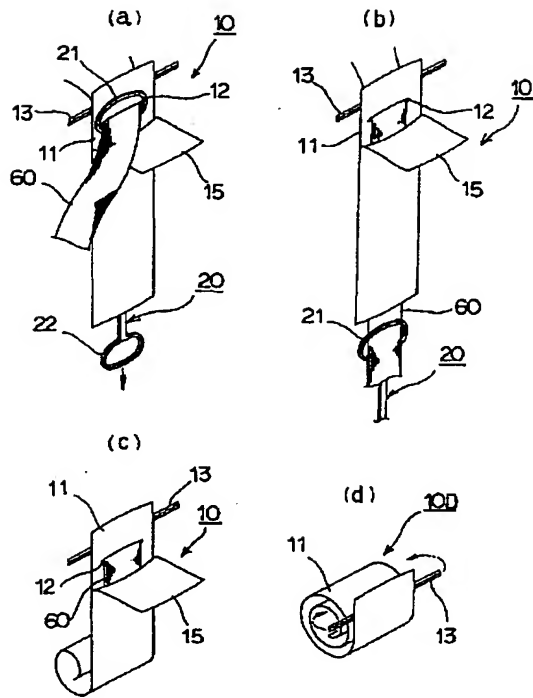
【図6】



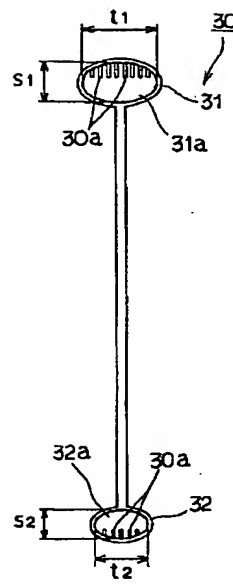
【図8】



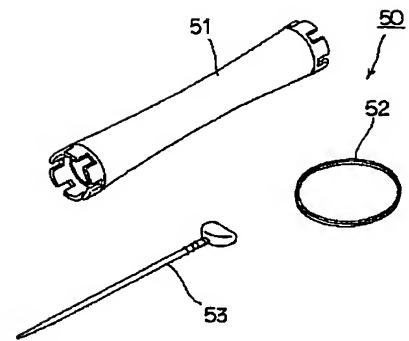
【図9】



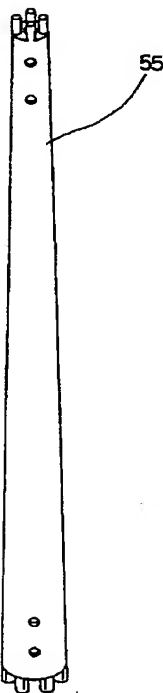
【図13】



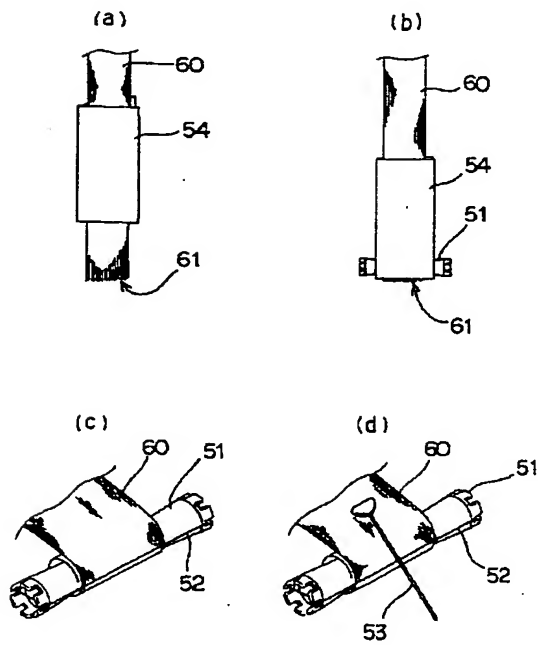
【図14】



【図16】



【図15】



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